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Citrus

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Report Highlights:

Mexican orange and grapefruit production for MY 2001/02 is forecast to be lower compared to MY 2000/01 production, due to weather related problems. Lime production is forecast to increase slightly for MY 2001/02. FCOJ production is also forecast to increase, due to expected higher prices. Therefore, FCOJ exports are forecast to increase for MY 2002.

Includes PSD changes: Yes

Includes Trade Matrix: No

Annual Report

Mexico [MX1], MX

TABLE OF CONTENTS

SECTION I. SITUATION AND OUTLOOK	1
Situation and Outlook	1
Citrus Situation	1
SECTION II. STATISTICAL TABLES	2
FRESH ORANGE	2
FRESH CITRUS OTHER	3
FRESH GRAPEFRUIT	4
FRESH CONCENTRATE ORANGE JUICE	5
ORANGE PRICES	6
PERSIAN LIME PRICES	7
KEY LIME PRICES	8
GRAPEFRUIT PRICES	9
SECTION III. NARRATIVE ON SUPPLY & DEMAND, POLICY & MARKETING	12
FRESH ORANGES	12
PRODUCTION	12
CONSUMPTION	13
TRADE	14
MARKETING	14
OTHER TRADE AGREEMENTS	15
FRESH CITRUS, OTHER	15
PRODUCTION	15
CONSUMPTION	17
TRADE	17
FRESH GRAPEFRUIT	18
PRODUCTION	18
CONSUMPTION	19
TRADE	20
FROZEN CONCENTRATE ORANGE JUICE	21
PRODUCTION	21
CONSUMPTION	21
TRADE	21

SECTION I. SITUATION AND OUTLOOK

Situation and Outlook

The recession in the United States is spilling over into Mexico and could have negative impacts on the consumer purchasing power and trade in other sectors of the economy. According to the Mexican government, more than 400,000 jobs have been lost during the first semester of 2001. The unemployment rate for September 2001 was 2.9 percent compared to 1.9 percent in December 2000. The GDP growth for 2001 is estimated by private analysts at 0.3 percent, a marked contrast to the 6.9 percent GDP growth in 2000. These same analysts estimate industrial production to slow down mainly in the "maquila sector", due to a slower demand for exports to the U.S. Also, the Mexican oil sector has been affected as revenue from oil exports have fallen as a result of low international prices. Corresponding revenue losses from various sectors of the economy have led to a general slowdown and prompted the Mexican government to announce that it is planning to cut 3 billion pesos (US\$330 million) in spending -- the first time in this year.

Citrus Situation

Citrus production in Mexico has gone through difficult times due to high costs of production, adverse weather conditions, and lack of credit. Orange and grapefruit production is forecast to decrease for MY 2001/02 and lemon production is forecast to increase slightly. Exports are expected to keep growing for MY 2001/02 but some concern is that demand from the international market will not increase very much due to the slowdown in the U.S. economy. FCOJ production and exports are forecast to grow because of better international prices. If the situation changes, citrus exports will fall again as in MY 2000/01.

SECTION II. STATISTICAL TABLES

FRESH ORANGE

PSD Table						
Country	Mexico					
Commodity	Fresh Oranges		(HECTARES)(1000 TREES)(1000 MT)			
	Revised 1999		Preliminary 2000		Forecast 2001	
	Old	New	Old	New	Old	New
Market Year Begin	11/1999		11/2000		11/2001	
Area Planted	332443	332443	332600	333000	0	333500
Area Harvested	294521	294521	306000	306000	0	300000
Bearing Trees	60671	60671	61812	61812	0	60600
Non-Bearing Trees	7586	7586	5373	5454	0	6767
TOTAL No. Of Trees	68257	68257	67185	67266	0	67367
Production	3385	3385	3500	3500	0	3100
Imports	32	32	22	22	0	22
TOTAL SUPPLY	3417	3417	3522	3522	0	3122
Exports	11	11	10	19	0	20
Fresh Dom. Consumption	2996	2996	3142	3173	0	2732
Processing	410	410	370	330	0	370
TOTAL DISTRIBUTION	3417	3417	3522	3522	0	3122

FRESH CITRUS OTHER

PSD Table						
Country	Mexico					
Commodity	Fresh Citrus,Other		(HECTARES)(1000 TREES)(1000 MT)			
	Revised 1999		Preliminary 2000		Forecast 2001	
	Old	New	Old	New	Old	New
Market Year Begin	11/1999		11/2000		11/2001	
Area Planted	122000	125302	123000	132000	0	136000
Area Harvested	110000	119872	111000	126000	0	127000
Bearing Trees	21340	23255	21534	24444	0	24765
Non-Bearing Trees	2328	1053	2328	1164	0	1755
TOTAL No. Of Trees	23668	24308	23862	25608	0	26520
Production	1220	1593	1230	1630	0	1650
Imports	1	1	1	1	0	1
TOTAL SUPPLY	1221	1594	1231	1631	0	1651
Exports	240	264	240	245	0	250
Fresh Dom. Consumption	737	1063	745	1118	0	1133
Processing	244	267	246	268	0	268
TOTAL DISTRIBUTION	1221	1594	1231	1631	0	1651

FRESH GRAPEFRUIT

PSD Table						
Country	Mexico					
Commodity	Fresh Grapefruit		(HECTARES)(1000 TREES)(1000 MT)			
	Revised 1999		Preliminary 2000		Forecast 2001	
	Old	New	Old	New	Old	New
Market Year Begin	11/1999		11/2000		11/2001	
Area Planted	12300	13000	12400	13200	0	13500
Area Harvested	9700	12800	9700	12800	0	12800
Bearing Trees	1823	2406	1823	2406	0	2406
Non-Bearing Trees	488	376	507	752	0	1316
TOTAL No. Of Trees	2311	2782	2330	3158	0	3722
Production	160	240	164	250	0	225
Imports	1	9	1	10	0	10
TOTAL SUPPLY	161	249	165	260	0	235
Exports	3	2	2	3	0	4
Fresh Dom. Consumption	134	215	138	223	0	197
Processing	24	32	25	34	0	34
TOTAL DISTRIBUTION	161	249	165	260	0	235

FRESH CONCENTRATE ORANGE JUICE

PSD Table						
Country	Mexico				65Degrees Brix	
Commodity	Juice, Orange				(MT)	
	Revised 1999		Preliminary 2000		Forecast 2001	
	Old	New	Old	New	Old	New
Market Year Begin	01/2000		01/2001		01/2002	
Deliv. To Processors	410	410	370	330	0	370
Beginning Stocks	3000	3000	3000	3000	3000	2500
Production	41000	41000	37000	33000	0	37000
Imports	1	1	1	1	0	1
TOTAL SUPPLY	44001	44001	40001	36001	3000	39501
Exports	37801	37801	33801	30501	0	33501
Domestic Consumption	3200	3200	3200	3000	0	3000
Ending Stocks	3000	3000	3000	2500	0	3000
TOTAL DISTRIBUTION	44001	44001	40001	36001	0	39501

ORANGE PRICES

WHOLESALE ORANGE PRICES (PESOS/KG)			
Month	2000	2001	Change %
January	1.43	1.30	(9.09)
February	1.40	1.27	(9.29)
March	1.43	1.27	(11.19)
April	1.64	1.30	(20.73)
May	1.95	1.63	(16.41)
June	1.72	1.94	12.79
July	1.76	2.78	57.95
August	2.76	3.53	27.90
September	2.06	3.47	68.45
October	1.52	1.64	7.89
November	1.51	N/A	N/A
December	1.12	N/A	N/A

SOURCE: SERVICIO NACIONAL DE INFORMACION DE MERCADOS

AVR. EXCHANGE RATE FOR 2000 US\$1.00 = \$ 9.40 PESOS

EXCHANGE RATE NOV. 8, 2001 US\$1.00 = \$ 9.20 PESOS

PERSIAN LIME PRICES

PERSIAN LIME WHOLESALE PRICES (PESOS/KG)			
Month	2000	2001	Change %
January	4.18	2.85	(31.82)
February	5.80	2.18	(62.41)
March	5.66	4.80	(15.19)
April	3.00	3.65	21.67
May	1.72	1.55	(9.88)
June	1.14	1.12	(1.75)
July	1.13	1.05	(7.08)
August	1.14	1.14	0.00
September	0.98	1.12	14.29
October	1.13	0.98	(13.27)
November	1.81	N/A	N/A
December	2.70	N/A	N/A

SOURCE: SERVICIO NACIONAL DE INFORMACION DE MERCADOS

AVR. EXCHANGE RATE FOR 2000 US\$1.00 = \$ 9.40 PESOS

EXCHANGE RATE NOV. 8, 2001 US\$1.00 = \$ 9.20 PESOS

KEY LIME PRICES

KEY LIME WHOLESALE PRICES (PESOS/KG)			
Month	2000	2001	Change %
January	7.90	4.01	(49.24)
February	7.70	3.00	(61.04)
March	3.57	2.41	(32.49)
April	2.75	1.79	(34.91)
May	2.40	1.86	(22.50)
June	2.43	2.14	(11.93)
July	2.77	1.93	(30.32)
August	2.70	2.25	(16.17)
September	2.82	1.97	(30.14)
October	2.81	1.94	(30.96)
November	4.51	N/A	N/A
December	5.65	N/A	N/A

SOURCE: SERVICIO NACIONAL DE INFORMACION DE MERCADOS

AVR. EXCHANGE RATE FOR 2000 US\$1.00 = \$ 9.40 PESOS

EXCHANGE RATE NOV. 8, 2001 US\$1.00 = \$ 9.20 PESOS

GRAPEFRUIT PRICES

GRAPEFRUIT WHOLESALE PRICES FOR 2000 MAIN PRODUCER STATES <i>(PESOS/KG)</i>			
MONTH	MICHOCÁN	TAMAULIPAS	VERACRUZ
JANUARY	3.60		2.32
FEBRUARY	3.54	2.20	2.40
MARCH	3.62	2.00	2.31
APRIL	4.03		
MAY	4.01		
JUNE	3.87	3.00	
JULY	4.14		
AUGUST	4.49		
SEPTEMBER	3.60		
OCTOBER	3.64	1.50	
NOVEMBER	3.13		
DECEMBER	2.27		

SOURCE: SNIM

AVERAGE EXCHANGE RATE FOR 2000 USD\$1.00 = \$9.40 PESOS

Note: shaded area represents that domestic grapefruit
prices were not available.

GRAPEFRUIT WHOLESALE PRICES FOR 2001 MAIN PRODUCER STATES (PESOS/KG)			
MONTH	MICHOCÁN	TAMAULIPAS	VERACRUZ
JANUARY			1.90
FEBRUARY			2.05
MARCH			2.40
APRIL			2.90
MAY		3.90	3.10
JUNE	3.30	4.25	
JULY	3.43		
AUGUST	4.20		
SEPTEMBER	4.40		3.00
OCTOBER			2.16
NOVEMBER			2.33 *
DECEMBER			
* As of November 8, 2001			

SOURCE: SNIM

EXCHANGE RATE (NOVEMBER 8, 2001) US\$1.00 = \$ 9.21 PESOS

Note: shaded area represents that domestic grapefruit
prices were not available.

EXCHANGE RATE

MONTHLY EXCHANGE RATE AVERAGES			
	1999	2000	2001
January	10.13	9.02	9.76
February	10.01	9.43	9.70
March	9.75	9.28	9.60
April	9.43	9.37	9.33
May	9.38	9.50	9.14
June	9.53	9.81	9.09
July	9.37	9.43	9.15
August	9.38	9.27	9.12
September	9.33	9.33	9.40
October	9.52	9.52	9.45
November	9.40	9.50	9.24 *
December	9.38	9.44	N/A
Annual Avg.	9.55	9.40	N/A

Source: Mexican Federal Register

Note: Monthly rates are averages of daily exchange rates from the Banco de Mexico.

* As of November 14, 2001

SECTION III. NARRATIVE ON SUPPLY & DEMAND, POLICY & MARKETING

FRESH ORANGES

PRODUCTION

The fresh orange production forecast for MY 2001/02 (November-October) is 3.1 MMT, a decrease compared to MY 2000/01, due to the alternate bearing nature of the crop. Also, Veracruz had weather related problems that impact production negatively. The third and fourth blooms were affected by untimely rainfall and warm weather reduced flowering and fruit set for the last part of the season. However, orange trees had good first and second blooms in Veracruz, due to timely rainfall; it is consequently expected that the Valencia harvest from October will be good, albeit not as large as the MY 2000/01 crop. Production in San Luis Potosí was also affected by rainfall. Production will also be affected because some areas in Veracruz have been abandoned due to low market prices and high input costs. Output from the Tamaulipas crop of Valencia oranges will also be lower, due to the season cycle; however, an early variety (Marsh) of oranges was slightly larger than expected. Orange trees in Coahuila de Zaragoza will also be bearing less fruit, but, as in Tamaulipas, the first crop of early varieties (Marsh) has increased compared to MY 2000/01. The MY 2001/02 forecast for oranges destined for processing is 370,000 MT, a 12 percent increase compared to MY 2000/01, due to industry expectations for higher international frozen concentrate orange juice prices (FCOJ). The fresh orange production estimate for MY 2000/01 remains unchanged due to favorable weather conditions in most of the producing states. The estimate for oranges destined for processing for MY 2000/01 was revised downward based on industry information and lower international prices for FCOJ. Production data for MY 1999/01 remains unchanged.

Area planted for oranges is forecast at 333,500 hectares for MY 2001/02, a very slight increase over MY 2000/01 area planted. According to growers, area planted has been increasing slowly, due to fluctuating prices. Although area planted for MY 2000/01 was revised upward based on official data, growers contrastingly indicate that orange groves were abandoned in Veracruz or were planted with limes as a result of the floods and heavy rain that occurred during October 1999. In fact, some expansions in Veracruz have been almost offset by growers abandoning groves due to high production costs, or switching to other commodities. In Alamo, for example, some growers have increased plantings of orange trees, while other growers affected by the 1999 floods have abandoned groves. In Martinez de la Torre, producers are switching to Persian Lime production. Meanwhile, the processing industry, which buys oranges from the market, has now begun to plant its own groves in order to ensure a continuous supply. The rapid expansion of orange groves in other areas of the country has also been slow. Veracruz, with approximately 145,000 hectares, which accounts for approximately 45 percent of the country's total planted area, is about 90 percent irrigated, whereas Nuevo Leon, with 8 percent of the total area planted in Mexico, is about 85 percent irrigated with water. The cost of production is higher in Nuevo Leon than in Veracruz because of irrigation costs. Growers indicate that lack of credit availability and the high cost of production, along with wide swings in fresh orange prices and marketing problems, have limited the planting of new trees. Average tree density in Veracruz is 200 trees per hectare.

Nuevo Leon has about 25,000 hectares of oranges with almost no new plantings, because of limited water available in the new irrigated area. Groves have been replanted with new early-maturing Valencia trees at higher densities, ranging from 163 to 300 trees per hectare. The higher density is an effort to help prevent frost damage. Most of the oranges of this region are grown for the fresh market because of the good quality. Most of the plantings of orange trees (about 42,000 has.) in the states of Tabasco, Campeche and Yucatan are in *ejidos* (communal farms) and are relatively young.

compared to Veracruz. The quality, however, is still not very good and most of the crop goes mainly to the fresh market. Data for MY 1999/00 orange production remains unchanged.

Country-wide orange yields in MY 2001/02 are forecast to decrease to 10.3 MT/Ha due to weather related problems and the off-season cycle. Yields, however, could decrease further depending on the volume of oranges of the fourth blooms in Veracruz. Orange yields differ widely depending on the production area. Usually, Veracruz yields range from 10 to 20 MT/Ha. In Nuevo Leon, yields range from 12 to 15 MT/Ha. In San Luis Potosi, yields range from 7 to 13 MT/Ha. This variance in yields is caused by many factors such as weather, input levels, tree density, and terrain.

Costs of production have increased for all citrus fruit, especially for imported inputs, such as fertilizers, pesticides, and other agrochemical products which have correspondingly increased at the rate of inflation. Production costs vary among the citrus regions and between producers. The average cost of production in some areas in Veracruz for a traditional grove with little intensive cultivation is approximately 4,850 pesos/Ha (US\$521/Ha) or less, while the average cost for a more intensively-farmed grove is about 11,600 pesos/Ha (US\$1,247.30/Ha). Fertilization and pest control accounts for much of the difference between these two different averages. These costs represent approximately 40 percent of total production costs. Average field worker wages are about 45 pesos (US\$4.83) per day, but sometimes producers have to pay 60 pesos or more (US\$6.45) per day to attract enough workers. To harvest oranges, workers are being paid much more -- about 200 pesos/MT (US\$20.6/MT), due to competition for workers from the *maquiladoras* and immigration to the United States. The events of September 11th in the U.S., however, could reverse this flow, and more workers could go back to work in the fields.

Grower prices at the farm gate for MY 2001/02 began in October at a low of 500 pesos/MT (US\$53.76/MT) for early varieties, although prices are expected to increase to approximately 600 to 800 pesos/MT (US\$64.51 to US\$86.02/MT) when the juice industry begins to buy fruit. Transportation costs from Veracruz to Mexico City are about 2,500 to 3,000 pesos per 10 MT (US\$268.81 to US\$322.58 per 10 MT) for one-day delivery.

In 2001, the Mexican government announced the establishment of a campaign against citrus tristeza virus (CTV). The main objective of this campaign is to establish phytosanitary measures to prevent, control and eradicate CTV and the brown citrus aphid in Mexico (Report MX 1123). The brown citrus aphid has been detected in the states of Quintana Roo and Yucatan, and CTV has been detected in the state of Baja California. According to citrus producers, citrus fruit from the Yucatan has to be washed, and packed in order to be transported to other states. So far, this extra processing is being paid by local producers at approximately 80 pesos/MT (US\$8.60/MT). According to producers in Veracruz, there are still no organized efforts from other states to help producers in the Yucatan to stop the spreading of CTV. Growers in other states have not yet organized to protect their groves and efforts are being done more on an individual basis, with some producers planting CTV-resistant root stock.

CONSUMPTION

The fresh orange consumption forecast for MY 2001/02 is 2.7 MMT, a 14 percent decrease compared to MY 2000/01 consumption, due to expected higher prices and a decrease in the consumer purchasing power. Final consumption estimates, however, will depend both on the final volume purchased by the processing industry and on the fruit production from the last two blooms in Veracruz. The MY 2000/01 consumption estimate was revised upward, due to a lower volume of oranges destined for the processing industry and lower market prices.

Orange prices for MY 2001/02 are expected to be higher because of shorter supplies. During the first two weeks of October 2001, wholesale prices of new-crop Valencia oranges from Veracruz averaged 1.80 pesos/kg. (US\$0.16/kg) compared to 1.50 pesos/kg (US\$0.16/kg) in October 2000. Most of the oranges in the fresh market are destined for domestic fresh squeezed juice.

TRADE

Mexican orange exports for MY 2001/02 are forecast to increase to 20,000 MT if demand from the U.S. continues at the same rate as in MY 2000/01. Orange exports for MY 2000/01 were revised upward because of a larger demand from the U.S. Quality and prices for Mexican oranges were far better during MY 2000/01 than in MY 1999/00 when exports were lower. Most of the oranges exported to the U.S. are from Sonora, which produces very good, high quality oranges. Mexico will continue to export processed oranges as peeled slices for fruit salads and other food products. According to sources, the international market is demanding more peeled fruit. The United States continues to be the largest export market for Mexican oranges. Argentina, however, has increased imports from Mexico. Mexican exporters keep exploring Asian markets, such as Hong Kong and Japan. The high quality oranges produced in the Sonora desert (about 150,000 MT) are suitable for these markets because shipments come from the Sonora free trade zone.

Mexico could also have access to other citrus fruit markets because the certification of the forced hot air process which has been approved by APHIS for tangerines, oranges, and grapefruit in Nuevo Laredo. Exporters who decide to switch from methyl bromide treatment to the forced hot air process will be able to export to the United States as other countries which use this new technology in quarantine treatments. However, producers have indicated that this treatment is not widely used, as it is very expensive.

Mexican orange imports for MY 2001/02 are expected to remain unchanged, due to available domestic orange prices and affordable prices. MY 1999/01 and 2000/01 data remain unchanged. U.S. orange exports to Mexico could expand significantly given the import zero tariff in Mexico and the ability of California, Texas and Arizona to ship to Mexico. U.S. orange prices, however, are higher than Mexican domestic produce.

MARKETING

There are three major wholesale markets or *Centrales de Abastos* in the country which handle 80 percent of total citrus fruit sold. Mexico City's Central Market handles 40 percent of the sales. The two other largest markets are located in Guadalajara and Monterrey. Mexico's distribution system is unique in its mix between traditional distribution methods (central market purchasing and delivery) and more sophisticated methods (large regional and national distributors).

Distributors/importers are the key to the success of any imported product since only some of the major retailers and the major food service chains import directly. For any U.S. company entering Mexico, it is important to have a reliable distributor, who can maintain regular contact with buyers, interface with the government and handle required paperwork, and ensure that service is maintained.

For fresh horticultural products, including citrus fruits, each city has a central wholesale market known as the *de Abastos*. Virtually all of Mexico's horticultural and fruit production and imports move through these markets; they are sold in boxes. Typical buyers in this area are large supermarket chains, street markets, hotels and restaurants.

U.S. citrus fruit exporters should be aware of the fact that the Mexican market is more price sensitive than the U.S. market. This is one of the main reasons for limited exports of US citrus products. Despite the excellent quality of U.S. products, prices are 4 to 5 times higher than Mexican products. Some attempts have been made by US firms to enter the Mexican market, but they have had limited success because of strategies emphasizing quality rather than price. Another limitation on citrus exports to Mexico are the phytosanitary restrictions. Only citrus fruits coming from the states of California and Arizona are authorized by the Mexican government to enter the country having an International Phytosanitary Certificate, which indicates that the products were grown in fruit fly-free areas. Negotiations are still underway for Florida Citrus.

OTHER TRADE AGREEMENTS

A free trade agreement was signed between Mexico and the European Union (EU) that went into effect on July 1, 2000. This agreement is expected to strengthen Mexico's strategic position in the world trade arena. Among agricultural products negotiated in the agreement is fresh orange juice and FCOJ. The EU allows 1,000 MT of orange juice under a quota access to the EU market. The tariff will be 50 percent under the MFN or GPS duties applicable at the time of import as of July 1, 2000. However, Mexico has not yet realized the full benefit of this market access. Also, the EU will allow 30,000 MT of FCOJ under a quota with a tariff of 25 percent under the MFN or GPS duties applicable at the time of import. The FCOJ must have a concentration of 20 degrees brix with a density of at least 1.089 grams per cubic centimeter. Mexico has increased exports of FCOJ to Germany, the United Kingdom, and the Netherlands.

Also, Mexico signed on March 6, 2000, a free trade agreement with Israel. Among the agricultural products negotiated in the agreement with Israel are unlimited exports of Mexican fresh oranges and FCOJ. Since Israel imports these products from other sources, it is uncertain what share of the market Mexico will be able to capture.

FRESH CITRUS, OTHER

PRODUCTION

This section covers two citrus fruits that are of economic significance to Mexico: Key Limes and Persian Limes. Mexican Key Limes are grown mainly on the Pacific coast, in the states of Colima, Michoacan, Guerrero and Jalisco. Most Persian Limes are grown in a micro-climate called "*La Huasteca*" that includes portions of the states of Veracruz, San Luis Potosi, Tamaulipas, and Hidalgo. Also, Oaxaca, Yucatan, and Tabasco in the southern part of Mexico are producing Persian Limes.

Total production of both limes for MY 2001/02 is forecast at 1,650,000 MT, slightly higher than MY 2000/01 production due to more acreage coming into production. According to producers, rainfall during May/June 2001 in Michoacan and Colima for Key limes was satisfactory. Overall weather conditions in Veracruz for Persian limes were also satisfactory. Production for MY 1999/00 and 2000/01 were revised upward based on recent official estimates.

Good weather conditions and the growth of area planted for both limes have increased production. The floods and heavy rain problems that occurred in Veracruz during October 1999 did not affect lime production as it did for orange and grapefruit.

Area planted to both Persian and Key Limes has increased at a low rate. Due to the export benefits of Persian Limes, the planted area for this fruit has grown at a faster rate in Veracruz. Although some Veracruz producers have replanted orange and grapefruit groves with Persian Limes because of favorable international prices, the acreage of these is still small. Nevertheless, new trees are coming into production in Veracruz, Michoacan and Oaxaca. Approximately 25 percent of the total area is planted with Persian Limes and 75 percent is planted with Key Limes. Due to the excellent winter window for Key Limes for the domestic market, planted area for this fruit is expanding in Michoacan. According to producers, however, the domestic market is saturated and therefore a sharp increase in the area planted would only result in lower producer profits. Total area planted for MY 2001/02 is forecast at 136,000 hectares. Area planted and harvested for MY 1999/00 and 2000/01 was revised upward based on new official estimates. Nearly 90 percent of the Persian Lime groves in Veracruz use micro-jet irrigation or other irrigation systems and produce year round. Most of the irrigated Key Lime groves are in the states of Michoacan and Colima and are able to produce year round. In contrast, almost all the planted area for Key Lime in Guerrero and Oaxaca is non-irrigated. In Guerrero, in over half of the Key Lime groves, coconut palm trees are planted in between Key Lime trees. The purpose of interplanting is to increase producer revenue.

Since production costs for Persian Limes in Veracruz produced for export is higher than those for oranges, the Persian Lime trade tends to be dominated by large producers. According to sources, Persian Lime production costs average from 8,000 pesos/Ha to 9,500 pesos/Ha (US\$860.20 to \$1,021.50/Ha) or more, due to higher prices for imported inputs such as fertilizers, pesticides and other agrochemical products. Well tended areas can have production costs up to \$14,000 pesos/Ha (US\$1,505.37/Ha). Growers indicate that smaller producers, who do not meet international standards, will eventually return to orange production. Transportation costs from Veracruz to Mexico City average 3,500 to 4,000 pesos/truck (US\$376.34 to \$430.10 / truck), and delivery time averages about 8 hours.

The cost of production for Key Limes varies according to the cultural practices and technology used. In the most important Key Lime producing states (Oaxaca, Colima and Michoacan) production costs can vary from 7,000 pesos/Ha to 16,000 pesos/Ha (US\$752.68 to \$1,720.43/Ha) for the well-tended areas.

Persian and Key Lime yields differ widely depending on production conditions. The yields for Persian Limes in Veracruz mostly range from 5 to 12 MT/Ha., depending on cultural practices, but some yields are as high as 15 MT/Ha. Key Lime yields average between 7 to 12 MT/Ha., with a few well-tended groves reaching 30 MT/Ha. In Key Limes in Colima that are interplanted with coconut palm, yields are generally 50 percent less than in conventional groves.

Grower prices for Persian Limes range from 400 to 800 pesos/MT (US\$43.00 to \$86.00/MT) for the domestic market, and 600 to 3,000 pesos/MT (US\$64.50 to \$322.58/MT) for the export market during January to April. Growers, however, indicate that prices during 2000 and 2001 have been low. Grower prices for MY 2000/01 for the domestic market were on average 300 pesos/MT (US\$32.25/MT), while export prices were on average \$1,550 pesos/MT (161.30/MT) for MY 2000/01. Prices for MY 2001/02 are expected to be higher.

Grower prices for Key Limes fluctuate more than do those for Persian Limes, depending on the season and the producing state. On average, Key Lime grower prices from Michoacan range from 650 to 2,600 pesos /MT (US\$100 to \$279/MT). Michoacan production is geared toward the winter season (October/February), while production in Colima, Oaxaca and other states cover the rest of the year. There is, however, year-round production for both Key and Persian Limes.

CONSUMPTION

Domestic consumption of both Key and Persian Limes in Mexico depends largely on price. Total lime consumption for MY 2001/02 is forecast at 1,133,000 MT. Consumption for MY 1999/00 and 2000/01 was revised upward based on official data. Demand for both types of limes has been increasing because of good market prices. Those Persian Limes which do not meet the higher quality requirements demanded of the export market, will be consumed domestically.

Most of the Key Limes go to the fresh domestic market, although exports have been increasing recently. In general, approximately 18 to 23 percent of total Key Lime production goes to processing. Producers from Colima and Michoacan indicate that approximately 35 to 40 percent of their limes go to processors. Official information from the processing industry, however, is unavailable. About 60 to 70 percent of Persian Limes from Veracruz go to the export market and the rest go to the fresh market and processing plants. This balance, however, depends on US demand.

Mexican Key Limes and Persian Limes compete for the same market. When Key Limes and Persian Limes are both present in the domestic market, prices are relatively low. At the onset of the Persian Lime harvest season (August/September), prices for both drop. After a month or two, however, when Persian Lime growers begin to export, prices for Persian Limes increase and remain high until April or May when exports of Persian Limes stop and both types of limes are again competing for the fresh domestic market. Key Limes were sold during November 2001, at 2.50 pesos/kg (US\$0.27/kg) on the wholesale market, while Persian Limes were sold at 1.00 peso/kg (US\$0.10/kg). Retail prices for Key Limes at the large supermarkets in November 2001 were 3.50 pesos/Kg (US\$0.37/kg) while Persian Limes were selling at 2.90 pesos/Kg (US\$0.31/kg). Key Limes from Michoacan, Colima and Oaxaca are sold on the wholesale market in 18-20/kg boxes; those from Guerrero are sold in 20-22/kg bags. Persian Limes are sold on the wholesale market in 50-100/kg bags.

TRADE

Persian and Key Lime exports for MY 2001/02 are forecast at 250,000 MT, a slight increase from the previous year due to slightly higher prices compared to MY 2000/01. The current international price for Persian Limes, however, remains low. MY 2001/02 prices for Persian Limes in November 2001 were US\$8 and US\$9/40-pound box. MY 2000/01 prices for Persian Limes in November 2000 were US\$7 and US\$8/box. Persian Limes reach on average US\$20 to \$30/ 40-pound box when international prices are good. Exporters have indicated that export sales are down because of lower demand from the United States, but they expect demand will increase again during CY 2002. Exporters indicate that Brazil is competing with Mexico for the European market. Export estimates for MY 2001/02 were revised upward based on trade data. However, exports for 2000/01 were lower than those of MY 1999/00 due to low international prices. Export data for MY 1999/00 was revised upward reflecting better international prices. According to producers, Persian Limes from Mexico supply about 40 percent of the U.S. and Canadian market. However, lime producers are expanding into new markets in Japan and Europe. Lime imports for MY 2001/02 are forecast at 10,000 MT.

forecast at 1,000 MT. Lime imports are not expected to increase dramatically, due to ample domestic supply for MY 1999/00 and 2000/01 remain unchanged.

Mexico's tariff rate on imported limes from the United States is zero under NAFTA. The U.S. tariff rate for Persian Limes is zero. The U.S. tariff phase-out for Key Limes is not expected to substantially increase lime exports to the United States in the short term. Mexican exports depend on U.S. demand and price.

NAFTA TARIFF SCHEDULE - US TARIFF		
YEAR	KEY LIMES	PERSIAN LIMES
2000	0.60¢/kg	0.00¢/kg
2001	0.40¢/kg	0.00¢/kg
2002	0.27¢/kg	0.00¢/kg

FRESH GRAPEFRUIT

PRODUCTION

Grapefruit production for MY 2001/02 is forecast at 225,000 MT, a 10 percent decrease compared to MY 2000/01 estimates. This lower production is a result of a lack of rain during the production cycle in certain areas of Veracruz and the use of fewer inputs to maintain groves in that state due to high costs of production. Although most of the grapefruit from Nuevo Leon is irrigated, some dry weather is expected to affect yields in that area. Grapefruit production in Michoacan had very good weather conditions for MY 2001/02 and good yields. Although the groves are still relatively new, they are entering the sixth or seventh year of production and so are reaching their maximum-bearing potential. Consequently, production is expected to reach 25,000 MT or more per year.

Grapefruit production estimates for MY 2000/01 were revised upward based on official data. This higher production was a result of overall better weather conditions with adequate rainfall compared to the dry weather that prevailed in MY 1999/00. Data for MY 1999/01 production reflect final official information. The reason for the higher production data is that SAGARPA information includes a revision for higher production and yields for the newer production areas of Michoacan and Campeche.

Grapefruit planted area had remained almost constant up to 1997. Area planted in Veracruz and Nuevo Leon, which are two main important producer states, has increased very little because of the high cost of production and low domestic demand. New planted areas in central Veracruz have been off-set by abandoned areas in other parts of the same state. Most of the new planted areas are geared towards the European export market. According to the industry, however, grapefruit plantings increased in the state of Michoacan because of better general weather conditions and a much lower cost of production. These areas are also geared towards the export market. Campeche is also a new developed area with few hectares compared to other states that are geared also to the export markets.

Planted area for grapefruit is forecast at 13,500 hectares for MY 2001/02 a small increase compared to MY 2000/01 at 12,500 hectares. Most of the increase in area planted is in Michoacan and Campeche. According to growers, Michoacan is planting because of good domestic and international prices, but when all area is in production it could create oversupplies as the domestic market is still small. Area planted and harvested estimates for MY 1999/00 and 2000/01 were revised upward based on official data. This data reflect increases in area planted, mainly in Michoacan and Campeche.

There are two types of grapefruit planted in Mexico: the red table varieties produced in Tabasco, Campeche, Michoacan, Nuevo Leon and Veracruz for export to the United States and Europe as fresh fruit; and the white juice varieties produced in Tamaulipas and Veracruz for juice production or for peeled slices. According to grower planting of red varieties are increasing because of the export market preferences. The state of Nuevo Leon has a certified forced-hot-air chamber in Montemorelos, but due to its high costs to operate, it has been used very little as an alternative quarantine treatment. So, exports through this method are not expected to grow.

According to growers, the MY 2001/02 forecast for grapefruit destined for processing will be approximately 180,000 MT. Grapefruit is used for peeled slices or juice production. The increase in grapefruit for processing reflected in MY 1999/00 has been a result of a larger demand from the export markets. Therefore, as it is easier to import grapefruit from the U.S., imports for the peeled slices industry has grown. Most of the fruit is imported from the U.S. then exported as peeled fruit to the U.S. or European markets. Consequently, estimates for processing for MY 1999/00 and 2000/01 were revised upward.

Overall average yields for MY 2001/02 are forecast at 17.5 MT/Ha, lower than MY 2000/01 yields because of lower rainfall and lower usage of inputs. Average yields for MY 2000/01 are estimated at 19.5 MT/Ha because of good weather conditions. An overall normal yield for grapefruit is approximately 23 MT/Ha. Veracruz accounts for about 60 percent of Mexican grapefruit production and has the highest yield in the country with 20 to 26 MT/Ha. Nuevo Leon follows with yields of 18 to 20 MT/Ha. Michoacan has lower yields -- between 10 to 14 MT/Ha. In all states, these yields are expected to increase. In other states, yields vary from 10 to 15 MT/Ha. Grower prices for MY 2000/01 in Veracruz began in August 2001 at approximately 1,700 pesos/MT (US\$183.00/MT) for the red varieties, however, prices tend to drop by November. Grower prices for Nuevo Leon began on average at 1,000 pesos/MT (US\$107.00/MT). Since Michoacan has developed areas with red varieties that can be harvested in June/July, prices were higher at approximately 2,000 to 3,000 pesos/MT (US\$215.05 to \$322.58/MT).

CONSUMPTION

Grapefruit consumption for MY 2001/02 is forecast to decrease to 197,000 MT, due to expected higher prices and a decrease in the consumer purchasing power. According to growers, however, demand for grapefruit has increased in the past years due to the preference of consumers for low calorie foods. Wholesale prices for October 2001 in Mexico City were approximately 2.00 pesos/kg (US\$0.21/kg), which were lower than in October 2000. Retail prices averaged 3.50 pesos/kg (US\$0.37/kg). Growers indicate that there is no premium on quality, as consumers are interested in lower prices. This trend also affects grapefruit consumption versus other more accessible fruits such as oranges. Since Michoacan can harvest earlier than Veracruz, producers can command higher prices in the domestic market. Estimated consumption for MY 1999/00 and 2000/01 were revised upward due to larger supplies at affordable prices.

TRADE

Grapefruit exports for MY 2001/02 are forecast to reach 4,000 MT. According to growers, demand from the European market has been growing steadily. Export prices for August/September 2001 were better compared months in 2000. Export prices for those months were approximately US\$8.00/40 lb. box, while in 2000, price was US\$5.50 /18 lb. box. Although grapefruit exports are geared to the European and Japanese markets, exports are small. In fact, Michoacan had good domestic prices for June and July, which could extend until October and would leave lower volumes for export. Therefore, when Veracruz production began late in August domestic prices were already low. Export estimates for MY 2000/01 were revised upward and estimates for MY 1999/00 were revised downward based on official Mexican data. According to sources, most of the imported grapefruit from the U.S. is further processed for re-export to U.S. and European markets. Imports have been growing for the past three years and are expected to reach 10,000 MT for MY 2001/02. Data for imported grapefruit for MY 1999/00 and 2000/01 was revised upward, due to an increase in demand from the European markets. The tariff rate for imported grapefruit follows.

NAFTA GRAPEFRUIT TARIFF SCHEDULE - MEXICAN TARIFF				
SEASON	2000	2001	2002	2003
August 1 to September 30	0.00¢/kg	0.00¢/kg	0.00¢/kg	0.00¢/kg
October 1 to December 31	0.87¢/kg	0.58¢/kg	0.39¢/kg	0.26¢/kg
January 1 to July 31	0.87¢/kg	0.58¢/kg	0.39¢/kg	0.26¢/kg

NAFTA GRAPEFRUIT TARIFF SCHEDULE - U.S. TARIFF		
SEASON	2000	2001
August 1 to September 30	0.00¢/kg	0.00¢/kg
October 1 to October 31	0.50¢/kg	0.30¢/kg
November 1 to July 31	0.80¢/kg	0.50¢/kg

With the preferential tariffs under NAFTA and the new forced hot air treatment, export opportunities for Mexican grapefruit in the U.S. might improve. However, any substantial increase in grapefruit exports, will depend upon advances in the phytosanitary area and technological practices. While likely to expand slightly, U.S. grapefruit exports to Mexico will still be relatively small.

FROZEN CONCENTRATE ORANGE JUICE

PRODUCTION

Frozen concentrate orange juice (FCOJ) production for MY 2002 (January-December) is forecast at 37,000 MT, a 12 percent increase compared to MY 2001 production because of expected higher international prices. Juice production depends heavily on the international price of FCOJ. The industry is expecting prices to rise at least US\$0.90/lb for CY 2002. The international price for FCOJ contracts for CY 2001 deliveries were at US\$0.75/lb., a low price which represents a smaller margin for the industry to buy fruit. FCOJ production estimates for MY 2001 were revised downward to 33,000 MT, a decrease of almost 10 percent from previous estimates due to lower international prices and higher international stocks. The industry had a slow start for MY 2001, due to the unattractive international price conditions. Despite the fact that there were larger supplies of oranges available for the industry at attractive prices, the industry reduced the expected processing volume of oranges. Data for MY 2000 FCOJ production remains unchanged. The industry is expecting to buy fresh fruit at approximately 500 pesos/MT (US\$53.76/MT) for MY 2002, compared to February/March 2001 prices of approximately 350 to 450 pesos/MT (US\$36.88 to \$47.41/MT) because of larger supplies of oranges at lower prices. Fresh market prices for oranges for processing may go as high as 600 to 700 pesos/MT (US\$64.50 - \$75.26/MT) by the end of the season.

The general uncertainty of the FCOJ industry has not changed from previous years. Unless FCOJ export prices are good, enabling processors to increase the price paid to fruit producers, it is unlikely that juice concentrate prices will increase dramatically. Due to financial problems of the processing industry, there has been a concentration of ownership.

CONSUMPTION

In general, the industry does not expect domestic consumption to increase dramatically because of the availability of fresh oranges in the domestic market. The majority of Mexican consumers prefer and demand fresh squeezed instead of processed orange juice. The industry indicates that consumption for MY 2002 is expected to remain constant, because of a decrease in consumption from the hotel and restaurant industry offset by a steady availability of fresh, domestic oranges. The same applies for the downward revision to MY 2001 FCOJ consumption figures. The consumption estimate for MY 2000 remains unchanged. Most of the orange juice produced in Mexico goes to the export market. According to processors, there is usually about a 3,000 MT carryover of FCOJ from one year to the other. This carryover decreased in MY 2000, due to lower FCOJ production.

TRADE

Exports of FCOJ for MY 2002 are forecast to increase to approximately 33,500 MT. Exports are expected to increase because of expected higher demand and international prices. Exports for MY 2000 were revised downward due to lower international prices and higher international stocks. Furthermore, the strength of the peso against the dollar in 2000 and 2001 has not helped the export industry. According to industry sources, Mexico will try to fill 10 percent of the 2001 U.S. quota; however, as of October 2001, 60 percent of the quota had only been filled. The United States is the main market for Mexican FCOJ, with Japan and European countries also becoming important markets for the product. Any FCOJ export growth will be limited to the needs of Florida's industry to mix their juice with a high

sugar-ratio and more colored Mexican juice. Also, export increases will depend on promotion in other markets besides the U.S. FCOJ imports are almost negligible compared to domestic production. Having enough domestic supply for FCOJ, and having almost flat consumption, greater imports are not likely for the time being.

Under NAFTA, Mexico has access to the U. S. market for 40 million gallons of FCOJ (single strength equivalent) at one-half of the Most Favored Nation (MFN) tariff rate. Any FCOJ imports above the quota will enter the United States at the MFN rate. This quota will be phased-out over 15 years. Exporters of FCOJ need a certificate issued by the Mexican government to be able to export to the U.S. under the NAFTA provisions. The Mexican government allocates the quota among most of the producing companies to give them an equal opportunity to share the benefits of NAFTA. When a company cannot cover the designated quota, the Mexican government reallocates the uncovered share to other companies.